



## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

<b>(51) International Patent Classification <sup>7</sup> :</b> <b>C12N 5/00, 5/02</b>	<b>A1</b>	<b>(11) International Publication Number:</b> <b>WO 00/50569</b> <b>(43) International Publication Date:</b> 31 August 2000 (31.08.00)
<b>(21) International Application Number:</b> PCT/US00/04548 <b>(22) International Filing Date:</b> 23 February 2000 (23.02.00)  <b>(30) Priority Data:</b> 60/121,482                      24 February 1999 (24.02.99)                      US  <b>(71) Applicant (for all designated States except US):</b> THE WISTAR INSTITUTE OF ANATOMY AND BIOLOGY [US/US]; 3601 Spruce Street, Philadelphia, PA 19104-4268 (US).  <b>(72) Inventors; and</b> <b>(75) Inventors/Applicants (for US only):</b> SANTOLI, Daniela [US/US]; 933 Wootton Road, Bryn Mawr, PA 19010 (US). ROVERA, Giovanni [US/US]; 933 Wootton Road, Bryn Mawr, PA 19010 (US). CESANO, Alessandra [IT/US]; 226 W. Rittenhouse Square, The Dorchester #413, Philadelphia, PA 19103 (US).  <b>(74) Agents:</b> BAK, Mary, E. et al.; Howson and Howson, Spring House Corporate Center, P.O. Box 457, Spring House, PA 19477 (US).		<b>(81) Designated States:</b> AU, CA, JP, US, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).  <b>Published</b> <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>
<b>(54) Title:</b> METHOD OF MODIFYING CYTOTOXIC CELLS AND USES THEREOF  <b>(57) Abstract</b>  TALL-104 cells, and other cytotoxic T cell lines, may be modified to increase the cytotoxicity thereof, to enhance growth properties, and/or to provide a preferred phenotype, e.g., expression of cell surface antigens, function, e.g., change in cytokine production profile, by culturing the cells in an effective amount of IL-15, optionally followed by gamma irradiation to halt proliferation.		
Express Mail No. ET033647367US		

## ABSTRACT OF THE DISCLOSURE

TALL-104 cells, and other cytotoxic T cell lines, may be modified to increase the cytotoxicity thereof, to enhance growth properties, and/or to provide a preferred phenotype, e.g., expression of cell surface antigens, function, e.g., change in  
5 cytokine production profile, by culturing the cells in an effective amount of IL-15, optionally followed by gamma irradiation to halt proliferation.